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| APPLICATION NO.                                                                  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/677,231                                                                       | 10/03/2003  | Chih-Liang Chen      | CHEN3592/EM         | 8608             |
| 23364                                                                            | 7590        | 11/10/2005           | EXAMINER            |                  |
| BACON & THOMAS, PLLC<br>625 SLATERS LANE<br>FOURTH FLOOR<br>ALEXANDRIA, VA 22314 |             |                      | JOHNSON, VICKY A    |                  |
|                                                                                  |             |                      | ART UNIT            | PAPER NUMBER     |
|                                                                                  |             |                      | 3682                |                  |

DATE MAILED: 11/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/677,231

Applicant(s)

CHEN, CHIH-LIANG

Examiner

Vicky A. Johnson

Art Unit

3682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Claim Objections***

1. Claim 2 is objected to because of the following informalities: in lines 3 and 5 "topedge" should be --top edge--. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Wu (US 6,475,122).

Wu discloses a transmission device for a gym bicycle comprising: a base (unnumbered, see Fig 1); a first axle (30) rotatably installed in the base; a first driving wheel (313) mounted on the first axle and rotatable along with the first axle; a second axle (20) installed in the base and parallel to the first axle; a driven wheel (23) rotatably

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mounted on the second axle by a first bearing (unnumbered, see Fig 1) and connected with the first driving wheel by a first belt (32); a second driving wheel (21) rotatably mounted on the second axle by a bearing (unnumbered, see Fig 1) and mounted on the driven wheel by a one-direction bearing (21); a third axle (10) installed in the base and parallel to the first and second axles (see Fig 1); and a flywheel (13) rotatably mounted on the third axle by two second bearings (unnumbered, see Fig 1) and connected with the second driving wheel by a second belt (22).

Re claim 2, the base has a U-like shape constructed by a bottom plate and two upright plates, each upright plate with a top edge, a rear edge and a front edge (see Fig 2), the upright plates have a pair of first notches (unnumbered, notches at 30) defined therethrough at the rear edges, a pair of second notches (unnumbered, notches at 20) defined therethrough at the top edges, and a pair of third notches (unnumbered, notches at 10) defined therethrough at the front edges, the first axle (30) is installed in the first notches by a pair of bearing seats (see Fig 1), the second axle (20) is installed in the second notches by a pair of vertical adjusting members (opening has a vertical component), and the third axle (10) is installed in the third notches by a pair of horizontal adjusting members (opening has a horizontal component).

Re claim 3, the flywheel (13) has a driven tubular part (shaft) extending from a center thereof and connected with the second driving wheel by the second belt.

Re claim 4, comprising an idler wheel rotatably mounted outside the first belt and pressing against the first belt to tightly about the first belt to the driven wheel (well known).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wu (US 6,475,122). In view of Chen (US 6,234,938).

Wu discloses a device as described above, but does not disclose the device having a magnetic damper installed outside the flywheel.

Chen discloses a magnetic damper (10) installed outside the flywheel (col. 1 lines (col. 2 lines 41-63).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Wu to include a damper as taught by Chen in order to work without a power source (col. 1 lines 12-21).

***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5,836,856

Mattoo et al

(flywheel transmission)

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6,830,538 Eschenbach (flywheel transmission)

4,871,164 Tseng (flywheel transmission)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (571) 272-7106. The examiner can normally be reached on Monday-Friday (7:00a-3:30p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on (571) 272-7099. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Vicky A. Johnson 11/7/05  
Examiner  
Art Unit 3682